

Serial No. 10/679,667

- 2 -

50310sh

CLAIM AMENDMENTS

1. (Currently Amended) A multiaxial artificial disc replacement (ADR), comprising:
a lower component adapted for fixation to an inferior vertebral body;
an upper component adapted for fixation to a superior vertebral body; and
an element that allows movement between the lower and upper components along only two separate, independent axes.
2. (Original) The multiaxial ADR of claim 1, wherein the two axes are orthogonal to one another.
3. (Original) The multiaxial ADR of claim 1, wherein one of the axes is generally medial-lateral, and the other axis is generally anterior-posterior.
4. (Currently Amended) The multiaxial ADR of claim 1, wherein:
the element that allows movement between the lower and upper components is a cruciate-shaped axle; and
the axes are generally anterior-posterior and medial-lateral.
5. (Withdrawn) The multiaxial ADR of claim 1, further including a cushioning component situated between the upper and lower components.
6. (Withdrawn) The multiaxial ADR of claim 5, wherein the cushioning component is an elastomer.
7. (Withdrawn) The multiaxial ADR of claim 5, wherein the cushioning component is a hydrogel.
8. (Withdrawn) The multiaxial ADR of claim 5, wherein the cushioning component is a spring.

Serial No. 10/679,667

- 3 -

50310sh

(248) 647-6000
TROY, MICHIGAN 48007-7021
9. (Withdrawn) The multiaxial ADR of claim 1, wherein one or both of the upper and lower components include a bone-ingrowth surface associated with fixation.

10. (Withdrawn) The multiaxial ADR of claim 1, wherein one or both of the upper and lower components are loosely coupled to a respective vertebral body with a mobile link.

11. (Withdrawn) The multiaxial ADR of claim 1, further including a seal to contain debris.

12. (Withdrawn) The multiaxial ADR of claim 11, wherein the seal surrounds the periphery of the upper and lower components.

13. (Withdrawn) The multiaxial ADR of claim 11, wherein the seal is disposed around the central articulating component.

14. (Withdrawn) The multiaxial ADR of claim 1, further including a fluid-containing seal.

15. (Withdrawn) The multiaxial ADR of claim 1, wherein the fluid includes water or aqueous solutions, triglyceride oil, soybean oil, an inorganic oil (e.g. silicone oil or fluorocarbon), glycerin, ethylene glycol, or other animal, vegetable, synthetic oil, or combinations thereof.